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## **Amendments to the Claims**

This listing of claims will replace all prior versions, and listings of claims in the application.

## **Listing of Claims:**

Claims 1-21. (Cancelled)

22. (Previously presented) An isolated polynucleotide comprising the sequence of nucleotides 1525-1643 of SEQ ID NO: 113 comprising a functional vascular tissue-specific *E. grandis* cOMT promoter.

23. (Previously presented) The isolated polynucleotide of claim 22, wherein the polynucleotide comprises the sequence selected from the group consisting of SEQ ID NO: 12, SEQ ID NO: 60, nucleotides 1-1643 of SEQ ID NO: 113, nucleotides 1019-1643 of SEQ ID NO: 113, nucleotides 1351-1643 of SEQ ID NO: 113, nucleotides 1338-1643 of SEQ ID NO: 113; nucleotides 1159-1643 of SEQ ID NO: 113; and nucleotides 1110-1643 of SEQ ID NO: 113.

24. (Previously presented) The isolated polynucleotide of claim 22, wherein the polynucleotide comprises the sequence of SEQ ID NO: 113.

25. (Previously presented) A genetic construct comprising a polynucleotide sequence of any one of claims 22-24.

- 26. (Previously presented) A genetic construct comprising, in the 5'-3' direction:
- (a) a promoter sequence;
- (b) a DNA sequence of interest; and
- (c) a gene termination sequence,

wherein the promoter sequence comprises a polynucleotide sequence of claim 22 or claim 23; wherein said promoter sequence possesses vascular tissue-specific promoter function of the *E.grandis* cOMT gene.

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27. (Previously presented) The genetic construct of claim 26, wherein the DNA sequence of interest is operably linked to the promoter in an antisense orientation.

- 28. (Previously presented) The genetic construct of claim 26, wherein the DNA sequence of interest is a coding sequence operably linked to the promoter in a sense orientation.
- 29. (Previously presented) The genetic construct of claim 26, wherein the DNA sequence of interest is a RNAi expression construct.
- 30. (Previously presented) The genetic construct of claim 26, wherein the DNA sequence of interest comprises a non-coding sequence operably linked to the promoter in a sense orientation.
- 31. (Previously presented) A genetic construct comprising in the 5'-3' direction:
- (a) a promoter sequence;
- (b) a polynucleotide sequence of any one of claims 22-24; and
- (c) a gene termination sequence, wherein the promoter sequence in (a) comprises a xylem-specific promoter sequence that is different from the polynucleotide sequence of (b).
- 32. (Previously presented) A genetic construct comprising in the 5'-3' direction:
  - (a) a promoter sequence;
- (b) a polynucleotide sequence comprising the sequence of nucleotides 1525-1643 of SEQ ID NO: 113 inserted in said construct as a direct or inverted repeat; and
- (c) a gene termination sequence, wherein the promoter sequence in (a) comprises a xylem-specific promoter sequence that is different from the polynucleotide sequence of (b).
- 33. (Previously presented) A host cell comprising the genetic construct of claim 25.
- 34. (Previously presented) The host cell of claim 33, wherein the host cell is a plant cell.

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35. (Previously presented) A method for identifying a gene responsible for a desired function or phenotype, comprising:

- (a) transforming a plant cell with the genetic construct of claim 26, wherein said DNA sequence of interest comprises said gene;
- (b) cultivating the plant cell under conditions conducive to regeneration and mature plant growth to provide a transgenic plant in which the gene is expressed; and
- (c) comparing the phenotype of the transgenic plant with the phenotype of a non-transformed plant, wherein said transgenic plant possesses the desired phenotype resulting from a change in lignification as compared to said non-transformed plant.
- 36. (Previously presented) The method of claim 35, wherein said lignification is reduced in said transgenic plant as compared to said non-transformed plant.
- 37. (Previously presented) The method of claim 35, wherein said promoter sequence directs transcription of said DNA sequence of interest in xylem or a tissue involved in xylogenesis of said transgenic plant.
- 38. (Currently amended) An isolated polynucleotide sequence comprising a sequence selected from the group consisting of:

a polynucleotide comprising a 20-mer, a 40-mer, a 60-mer, an 80 mer, a 100-mer, a 120-mer, a 150-mer, a 180-mer, a 220-mer, a 250-mer, a 300-mer, 400-mer, 500-mer or 600-mer complementary to SEQ ID NO: 12, SEQ ID NO: 60, or nucleotides 1-1643 of SEQ ID NO: 113.

39. (Previously presented) An isolated polynucleotide sequence comprising a sequence selected from the group consisting of:

a polynucleotide comprising a 180-mer, a 220-mer, a 250-mer, a 300-mer, 400-mer, 500-mer or 600-mer of SEQ ID NO: 113.

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- 40. (Previously presented) A genetic construct comprising in the 5'-3' direction:
- (a) a promoter sequence;
- (b) a polynucleotide sequence of claim 38; and
- (c) a gene termination sequence.